

Date: Wed, 6 Apr 94 08:07:08 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #383  
To: Info-Hams

Info-Hams Digest                      Wed, 6 Apr 94                      Volume 94 : Issue 383

Today's Topics:

(none)  
[News] NOAA/NWS To Expand Weather Radio Coverage  
        Alpha76 modification  
        ARRL Strange Proposals  
        Cable channel 18..  
        FCC.GOV  
        HamCom in Fergus Falls, Mn?  
        Hamming in Hong Kong  
        HAM ON BIKE (2 msgs)  
        Help with installation of radio in Buick  
How phasing SSB Exciters Work (Was: RF and AF speech pr  
        Icom 2SRA  
        IPS Daily Report - 05 April 94  
        Operation of Ham radios on planes  
        SB320 Direction Finding in RACES

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 6 Apr 94 14:32:10 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: (none)  
To: info-hams@ucsd.edu

Sometime ago a query had been posted regarding WWV receivers which produce  
digital output suitable for use with a computer for time clock synchronization.  
I am looking for just such a beast preferrably with a software package

for use with Un\*x (specifically HP-UX but I can port source code if provided). Does anyone know where receivers like these can be purchased? I really miss the old Heathkit :( model.

Thanx!

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*****
* Robert G. Schaffrath, N2JTX      * Internet:   rgs%wpmax2%gfmida@uunet.uu.net *
* Systems Engineer                * CompuServe: 76330,1057          *
* Maxwell House Coffee Company    * Phone:      914-335-2777          *
* Kraft General Foods Corp.       * Slogan:     "ervice is ur mott"    *
*****
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Date: Wed, 6 Apr 1994 08:13:11 GMT  
From: ihnp4.ucsd.edu!swrinde!gatech!wa4mei!ke4zv!gary@network.ucsd.edu  
Subject: [News] NOAA/NWS To Expand Weather Radio Coverage  
To: info-hams@ucsd.edu

In article <Cnr45s.15L@news.Hawaii.Edu> jherman@uhunix3.uhcc.Hawaii.Edu (Jeffrey Herman) writes:

>  
>From the newspaper USA TODAY  
>  
> The government announced expansion of its Weather Radio to  
>include all types of disaster warnings, and to increase coverage  
>to 95 percent of Americans, up from 75 percent now. Vice President  
>Gore said the weak link in Sunday's storms, which killed at least  
>43 people in the Southeast, was the inability to get the word out.

Since I live in the area of the tornados, I'll say that Al Gore doesn't know what he's talking about. (no surprise) The area of the tornados is served well by 3 NWS stations, and numerous broadcast stations tied to the EBS system. The problem is that people weren't listening to the warnings being issued.

Unlike hurricanes, tornados strike very limited areas. They can level the house across the street, and leave yours untouched. Since we have many tornados in this area, and since tornado alerts are broadcast with nearly every thunderstorm, people have grown accustomed to \*ignoring\* the warnings. More NWS automated transmitters won't help that situation.

In recent years the NWS has \*reduced\* the number of radar equipped originating stations and replaced them with automated relays from a few weather service offices. That means that good localized weather reporting has declined. So people have increasingly quit monitoring their local automated server. If Al Gore wants to really make a

difference, he'll reopen the local weather offices so people will again get useful reports on their local weather conditions. Then they may start listening again.

(When some regional reporting station relayed over your local NWS automated transmitter is saying partly cloudy, and you've got 4 inches of partly cloudy on the ground and more falling, you begin to lose confidence in the system.)

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 6 Apr 94 12:10:05 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Alpha76 modification  
To: info-hams@ucsd.edu

I'd like to have some advice on modification of Alpha 76 Amplifier.

My question is;  
Can I replace 3-8874(3CX400) tubes with 2-3CX800 tubes?  
If I do the following modification, what kind of troubles will be expected.

According to the EIMAC POWER GRID TUBES quick reference catalog 488, the above tube specifications are;

8874/3CX400 3CX800A7  
Cathode Voltage 6.3V 13.5a  
Cathode Current 3.0A 1.5A  
GG Capacitance  
Input 20.5pF 26.0pF  
Output 6.0pF 6.1pF  
Socket SK-1900 SK-1900  
Chimney SK-606 SK-1906+1916  
Length 2.14inch 2.52  
Diameter 1.64inch 2.53

3-8874 will spend 56.7w(6.3Vx3Ax3tubes) for heater and 2-3CX800 will spend 40.5w(13.5Vx1.5Ax2ubes) for heater. So I'd like to apply the double-voltage rectification (Voltage Doubler) to the original (heater) transformer output.

I believe this will work, because the original heaters require 56.7w but new heaters require 40.5w only. Then Voltage Doubler will double the input voltage(6.3V)+20~30% extra voltage to the output, so 13.5V or higher will be obtainable.

I just purchased the old Alpha76 and must replace all three tubes someday (soon or later). According to the recent Ham Traders Yellow Sheet, a new tube price is \$225(8874) and \$240(3CX800A7), so I have to pay \$675 for 3-8874 but \$480 for 2-800A7.

Less cost (need modification however), more performance (400w more plate dissipation).

How do you think on my idea?

Thanks in advance

Tack JE1CKA/KH0AM

#Crazy tester in far east/ pacific

...-.-

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Date: 6 Apr 1994 12:50:16 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!darwin.sura.net!  
news.larc.nasa.gov!eos1.larc.nasa.gov!eckman@network.ucsd.edu  
Subject: ARRL Strange Proposals  
To: info-hams@ucsd.edu

The criteria for DXCC eligibility are not a secret and may be found in several ARRL publications including the ARRL Operating Guide and the DXCC Countries List. While I don't know the history behind the inclusion of Peter I as a DXCC country, I'm sure that it must have followed the normal process of petition to the DXAC and a vote.

I'm certain that the identities of the individuals who have proposed the inclusion of the Turkish Republic of Northern Cyprus (TRNC) as a DXCC country and the deletion of Mount Athos can be found by writing to a member of the DXAC whose addresses are in every issue of QST. Their actions are regularly reported in this newsgroup as well.

Without getting into a debate over the DXCC countries list criteria, I feel that TRNC does not qualify for DXCC status at this time. I outlined my view in a recent issue of "QRZ DX" which Bob Winn was kind enough to publish in full. It's unfortunate that the issue is in many ways politically-charged and is likely to cause some strong opinions for reasons that have nothing to do with amateur radio.

I very much doubt that the DXAC has any hidden political agenda in also considering the deletion of Mt. Athos at the

same time as the TRNC issue. Speaking just as a DXer, I'm rather disturbed that one individual feels that he is the sole voice of a DXCC "country". That hardly qualifies as good sportsmanship and from all I know of Mt. Athos, I fail to see how it ever qualified as a DXCC country on the basis of the ARRL's criteria.

So, while I agree with the SV amateur's concerns about the TRNC DXCC issue, I think that their reasoning is somewhat misguided and I strongly doubt that the DXAC in any way has it out for Greece or any other country.

Richard Eckman K04MR  
NASA Langley Research Center  
Hampton, VA  
eckman@eos1.larc.nasa.gov

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Date: Tue, 5 Apr 1994 19:56:35 GMT  
From: sgiblab!wetware!spunky.RedBrick.COM!psinntp!psinntp!arrl.org!ehare@ames.arpa  
Subject: Cable channel 18..  
To: info-hams@ucsd.edu

Tony Pelliccio (Anthony\_Pelliccio@brown.edu) wrote:

: In article <6yu7Jc1w165w@p-cove.UUCP>, wolfman@p-cove.UUCP (Aaron Smith)  
: wrote:

: > I don't know how much this has been discussed here, but I would like to  
: > know what I can do about our cable system. There is a real bad cable leak  
: > in our town. If I tune to 145.25 while in my car, I can even hear their  
: > continuous carrier, thats how bad it is.. Who do I talke to or contact  
: > about getting this problem fixed? Whenever someone transmits they get  
: > into everyones channel 18 in about a half mile radius. Noone has really  
: > complained to the cable company yet, probably because here it's a pay  
: > station (PASS.. joy) and I don't think many people subscribe to it..

: Contact your local cable company. I'm sure they'd be VERY interested in  
: hearing that their cable is leaking signal. Just tell it to them the same  
: way you told us... you can hear it on 145.25. Cable channel 18 runs from  
: appx 144.0 to 148.0 MHz so you're in the general ballpark.

The ARRL has a reprint of an article about this that was published in Communications Technology, the Journal of the Society of Cable Television Engineers. Send a large-size SASE with three units of postage to the ARRL Technical Department Secretary, 225 Main St, Newington, CT and ask for the "EMI/RFI - CATVI" package. Your cable operator will recognize this publication. It is not available

electronically, I am sorry. The ARRL Book -- Radio Frequency Interference  
-- How to Find It and Fix It also has a section on CATVI.

: In addition, 2m transmissions WILL interfere if there's leakage on the  
: cable.

A TV signal needs about a 40- to 50-dB signal to noise ratio. A small  
leak can be enough to cause interference. If the cable operator insists  
he doesn't have to worry about leaks in, tell them to look up  
FCC regs 78.605, the regulations about required performance in the  
cable system. This section specifies a minimum 51 dB carrier to coherent  
disturbance and 40 dB signal to noise ratio.

: If the cable company should ignore your helpful comments then it's time to  
: notify your local branch office of the FCC. They'll take a rather intense  
: interest in the matter.

The key word is probably "Cumulative Leakage Index." This is the  
annual leakage test the cable company must pass. If anything, they  
should be glad that hams are willing to help them find the leaks.

After you have read our interference packages and book, contact me  
here at HQ if you need any help finding a resolution. I do have a few  
low friends in high places at TCI, if that is the franchise. You may  
be better off dealing directly with the Service Manager or system  
engineer; the repair crews don't usually understand the issues.

(PS - Hi, Tony!)

73 from ARRL HQ, Ed

--

Ed Hare, KA1CV, ARRL Laboratory, 225 Main, Newington, CT 06111  
203-666-1541 ehare@arrl.org

My electronic posts and email do not necessarily represent the policy  
of the ARRL, but I can probably get in trouble for them anyway!

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Date: Wed, 6 Apr 1994 07:24:41 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!saimiri.prima.te.wisc.edu!hpg30a.csc.cuhk.hk!  
hkuxb.hku.hk!pckwong@network.ucsd.edu  
Subject: FCC.GOV  
To: info-hams@ucsd.edu

Seth Taylor (taylor@tix.timeplex.COM) wrote:

: Tried to log into ftp.fcc.gov and I could not login as anonymous  
: with my IP address as a password (usual procedure to get into an  
: open FTP site). Any ideas ?

:  
:  
: Seth KC2WE  
: ex----WA2FNF,KZ5BA

But I can do it and looked around. I just login "anonymous"  
and my email address as password, I typed only "pckwong" by  
mistake. Is this the reason. Try again, I have no time today.

- Philips Wong, VR2XVI

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Date: 6 Apr 94 01:18:30 -0500  
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.ans.net!  
paperboy.amoco.com!apctrc!msc.edu!news.gac.edu!msus1.msus.edu!  
mhd1.moorhead.msus.edu!moewes@network.ucsd.edu  
Subject: HamCom in Fergus Falls, Mn?  
To: info-hams@ucsd.edu

A friend of mine and I were told that there was a convention in  
Fergus Falls, Mn saturday April 9th but we haven't been able to get any  
information about it. As we are yet unlicensed (hoping to test at the  
convention) it has seriously limited our ability to find out about it. All  
we can do is listen to people mention it in passing on the radio. So, if  
someone has some information (I know it's very soon) and would mind sending  
me at least some sort of time schedule I would be very grateful. Hopefully  
we will both be able to pass the examination. Thanks in advance.

--

\* Christopher R. Moewes \*  
\* Moorhead, Mn 56560 /o)\ InCrEaSe ThE pEaCe \*  
\* (218) 236-6810 \o/ ChRiS (moewes@mhd1.moorhead.msus.edu) \*

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Date: Wed, 6 Apr 1994 07:20:28 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!saimiri.prima.te.wisc.edu!hpg30a.csc.cuhk.hk!  
hkuxb.hku.hk!pckwong@network.ucsd.edu  
Subject: Hamming in Hong Kong  
To: info-hams@ucsd.edu

Michael Lo (ee\_hflo@dma039.ust.hk) wrote:  
: Chip Owens (owens@stout.atd.ucar.edu) wrote:  
: : Has anyone with a U.S. ham license had success getting  
: : a permit to operate in Hong Kong?  
:  
: : I'm going there this summer and want to operate a ham  
: : station. Any help or info would be greatly appreciated.

:  
: : Chip Owens, NW00, Boulder, Colorado  
:  
: You can apply for a a kind of temporary license in OFTA.  
: (OTFA:Office of Telecommunication Authority).  
: Address: OFTA , 25/f , Wu Chung Building, Wan Choi, HK island, Hong Kong.  
: ^^^^^^^  
: correction : Wanchai  
:  
: Michael Lo  
: VR2YJR  
:  
:  
:Good Luck & 73 !

Philips Wong, VR2XVI

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Date: 6 Apr 1994 07:03:12 GMT  
From: tulane!rs4.tcs.tulane.edu!sikorski@ames.arpa  
Subject: HAM ON BIKE  
To: info-hams@ucsd.edu

Dean Cookson (cookson@mbunix.mitre.org) wrote:  
: In article <2ns4t8\$ch@toads.pgh.pa.us>, <fred@dke.pgh.pa.us> wrote:  
: >  
: >I'm trying to install a Kenwood 732A (UHF/VHF) Ham radio on my 86  
: >Goldwing SEi.

: Bummer, I had visions of a large hunk of smoked pork bungie corded to  
: a luggage rack. Oh well...

Or another followup to the "Cop Bikes" thread...

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Date: Wed, 6 Apr 1994 14:10:56 GMT  
From: envoy!equinox.ccs.unr.edu!destree@uunet.uu.net  
Subject: HAM ON BIKE  
To: info-hams@ucsd.edu

You may want to check out the April issue of 73 magazine. They have an article about a group of motorcycle mobile hams. You could probably contact the group for more info. I'm sure one of em' has kludged their radio equipment with their intercom system.

73's Louis





>might find it objectionable because of the AGC action of typical SSB  
>receivers. (Which would make the carrier "pop up" during speech pauses.)  
>  
>I have often thought, though, that the Weaver method would be well-suited  
>to implementation in a DSP, since you can get mathematically perfect  
>carrier suppression.

Better still, make \*use\* of the carrier to implement ACSSB compandoring.  
Do the final notching at the receiver. Naturally audio quality would  
suffer with a notch at 1800 Hz, but that won't hurt communications  
effectiveness much.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 6 Apr 94 08:13:06 EST  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!usenet.ins.cwru.edu!  
news1.hh.ab.com!iccgcc.cs.hh.ab.com!lieser@network.ucsd.edu  
Subject: Icom 2SRA  
To: info-hams@ucsd.edu

I'm planning to take my first (Tech) exam in the near future, and  
was thinking of buying an Icom 2SRA so as to have some scanner  
coverage in addition to the ability to transmit on 144-148MHz.  
Are there any problems with coupling a wide-coverage scanner with  
the transmitter? Is the 2SRA easy to use, and is its performance  
good? I'm wondering if I should just go with a simpler (and cheaper)  
rig.

Thanks in advance,  
Ed Lieser  
Allen-Bradley Co., Cleveland, Ohio

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Date: Tue, 5 Apr 1994 23:19:14 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!EU.net!sunic!trane.uninett.no!  
nntp.uio.no!ifi.uio.no!wabbit.cc.uow.edu.au!metro!ipso!rwc@network.ucsd.edu  
Subject: IPS Daily Report - 05 April 94  
To: info-hams@ucsd.edu

SUBJ: IPS DAILY SOLAR AND GEOPHYSICAL REPORT

ISSUED AT 5/2330Z APRIL 1994 BY IPS RADIO AND SPACE SERVICES  
FROM THE REGIONAL WARNING CENTRE (RWC), SYDNEY.  
SUMMARY FOR 5 APRIL AND FORECAST UP TO 8 APRIL

IPS Warning 10 was issued on 31 March and is current  
for interval April 3 - April 14 (coronal hole).

-----  
1A. SOLAR SUMMARY

Activity: Very Low

Flares: None

Observed 10.7 cm flux/Equivalent Sunspot Number : 077/16

1B. SOLAR FORECAST

	06 April	07 April	08 April
Activity	Very low	Very low	Very low
Fadeouts	None expected	None expected	None expected

Forecast 10.7 cm flux/Equivalent Sunspot Number : 075/13

1C. SOLAR COMMENT

None.

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2A. MAGNETIC SUMMARY

Geomagnetic field at Learmonth: one major storm period, unsettled to  
active at other times.

Estimated Indices : A	K	Observed A Index 4 April
Learmonth	27 3344 6433	
Fredericksburg	25	39
Planetary	35	50

Observed Kp for 4 April: 6675 4434

2B. MAGNETIC FORECAST

DATE	Ap	CONDITIONS
06 Apr	35	Active to minor storm.
07 Apr	35	Active to minor storm.
08 Apr	35	Active to minor storm.

2C. MAGNETIC COMMENT

Coronal hole induced activity currently in progress.

3A. GLOBAL HF PROPAGATION SUMMARY

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
05 Apr	normal	fair	fair-poor

PCA Event : None.

#### 3B. GLOBAL HF PROPAGATION FORECAST

DATE	LATITUDE BAND		
	LOW	MIDDLE	HIGH
06 Apr	normal-fair	fair	poor
07 Apr	normal-fair	fair	poor
08 Apr	normal-fair	fair	poor

#### 3C. GLOBAL HF PROPAGATION COMMENT

Fair-Poor HF comms quality expected at times over next three days.  
Conditions at high lats are expected to remain degraded  
until April 14.

#### 4A. AUSTRALIAN REGION IONOSPHERIC SUMMARY

MUFs at Sydney were about 15% above predicted monthly values

Observed T index for 05 April: 64

Predicted Monthly T Index for April is 40.

#### 4B. AUSTRALIAN REGION IONOSPHERIC FORECAST

DATE	T-index	MUFs
06 Apr	40	Near predicted monthly values.
07 Apr	40	Near predicted monthly values.
08 Apr	40	Near predicted monthly values.

#### 4C. AUSTRALIAN REGION COMMENT

Fair-Poor HF comms conditions expected until April 13, especially  
during local night.

--

IPS Regional Warning Centre, Sydney	IPS Radio and Space Services
email: rwc@ips.oz.au fax: +61 2 4148331	PO Box 5606
RWC Duty Forecaster tel: +61 2 4148329	West Chatswood NSW 2057
Recorded Message tel: +61 2 4148330	AUSTRALIA

Date: 6 Apr 1994 10:48:20 GMT

From: ihnp4.ucsd.edu!usc!math.ohio-state.edu!jussieu.fr!univ-lyon1.fr!

elendir@network.ucsd.edu

Subject: Operation of Ham radios on planes

To: info-hams@ucsd.edu

Uncle Dave (dev@armory.com) wrote:

: i know this subject comes up every so often, and if it's in teh  
: faq, then i didn't look carefully enough, but what's the deal on  
: operation of ham radios on a plane?

Well, at least in CEPT countries, there is no such problem since it is  
utterly forbidden. It's written on the back of the license : Operation from  
any kind of aircraft is forbidden.

What about trains ?

Vince.

--

PSG --- Paris SG football club. | Ham radio call : F1RCS

-----  
ENST - Ecole Nationale Supérieure des Telecommunications, Paris, France  
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Date: Wed, 6 Apr 1994 08:51:16 GMT

From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa

Subject: SB320 Direction Finding in RACES

To: info-hams@ucsd.edu

In article <199404060620.XAA13337@ucsd.edu> enge@almaden.ibm.COM (Roy Engehausen)  
writes:

>Bid: \$RACESBUL.320

>Subject: SB320 Direction Finding in RACES

>

>

>

>In addition to such uses for direction finding, as in the RACES

>type operations, there are others as well; the "fox hunt"

>(direction finding contest) of the local Amateur Radio club being

>an example. Such activities range from an ongoing "sport" to the

>real preparation for serious and dedicated direction finding.

>Both aspects have their place, but those who see "fox hunts" only

>as a pastime and purposely overlook the serious nature of the

>work that can be done, are a discredit to the Amateur Radio

^^

>Service whose primary purpose - as set forth in FCC regulations -

>is public service. (eom)

Gosh, Roy - that's a little strong, isn't it?

Jeff NH6IL

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End of Info-Hams Digest V94 #383

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